

WHAT IS CLAIMED IS:

1. A system for multi-accessing a radio communication data call, comprising:
 - a plurality of user equipments controlling allocation of a radio resource according to a desired data transfer rate; and
 - a multi-access system for multi-accessing the plurality of user equipments to one or more radio communication terminals based on said allocation.
2. The system of claim 1, wherein the multi-access system comprises:
 - a multimedia system for interfacing with the plurality of user equipments by an ethernet or a bluetooth method;
 - a packet-call connection system for interfacing with one or more radio communication terminals by a USB or an RS232C method; and
 - a multi-access routing system for routing data of the plurality of user equipments transmitted from the multimedia system to the radio communication terminals according to a slot assignment method.
3. The system of claim 2, wherein the slot assignment method is set by the plurality of user equipments.
4. The system of claim 2, wherein the slot assignment method comprises:
 - performing a one-on-one assignment for mapping the user equipment and the radio communication terminal; and

a common sharing method for allowing one user equipment to share the plurality of radio communication terminals.

5. The system of claim 2, wherein the multimedia system comprises:

a plurality of physical data link control units provided in one-to-one correspondence with the plurality of user equipments and for controlling a physical data link;

a TCP/IP control unit for performing a TCP/IP protocol function on data transmitted from the plurality of physical data link control units;

a command/response control unit for performing/responding to a command of the user equipments transmitted from the TCP/IP control unit; and

a data control unit for sorting and buffering data transmitted from the TCP/IP control unit.

6. The system of claim 2, wherein the multi-access routing system sets a slot assignment method according to a command of the user equipment, assigns a slot to the user equipment according to the set slot assignment method and routes a transmission/reception data between the user equipment and the radio communication terminal.

7. A method for multi-accessing a radio communication data call comprising the steps of:

setting a data call multi-access mode according to a command of a user equipment;

mapping transmission data of a plurality of user equipments to a plurality of radio communication terminals according to the set call multi-access mode;

storing IP addresses of transmission data and user equipment addresses of transmission data by radio communication terminals;

searching user equipment addresses by radio communication terminals by using the IP addresses of the reception data transmitted from the plurality of radio communication terminals; and

transmitting the reception data to the searched user equipment addresses.

8. The method of claim 7, wherein the step of accessing the plurality of radio communication terminals comprises: assigning transmission data by user equipments to time slots by radio communication terminals according to the multi-access method.

9. The method of claim 7, wherein the user terminal address includes a data link address of a user equipment.

10. A method for multi-accessing a radio communication data call comprising:
receiving transmission data from a plurality of user equipments;
identifying a type of the transmission data;

performing a corresponding command if the transmission data is an MAS data for controlling a multi-access system;

allocating a time slot of each radio communication terminal to the transmission data according to a set slot allocation method if the transmission data is a general data for a data service;

storing an IP address of the transmission data and the user equipment address in an IP address table by radio communication terminals;

receiving reception data from the plurality of radio communication terminals;

searching an IP address table of a corresponding radio communication terminal by using an IP address of the reception data; and

transmitting the reception data to a user equipment there is a user equipment address of the IP address in the IP address table.

11. The method of claim 10, further comprising:

searching an IP address table of other radio communication terminal, if a user terminal address of the IP address is not in the IP address table; and

transmitting a reception data using a searched user terminal address, if a user terminal address of the IP address is searched.

12. The method of claim 10, wherein the step of performing a corresponding command comprises:

displaying a state of a multi-access system to a corresponding user equipment, if the transmission data is an MAS data for displaying the state of the multi-access system; and

changing the slot assignment method according to a command of the corresponding user equipment, if the transmission data is an MAS data for changing the slot assignment method of the multi-access system.